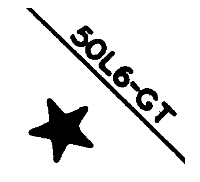




50L6-GT

BEAM POWER AMPLIFIER

Heater ■	Coated Unipotential Cathode	
Voltage	50	a-c or d-c volts
Current	0.15	amp.
Maximum Overall Length		3-5/16"
Maximum Seated Height		2-3/4" ←
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermediate Shell Octal 7-Pin

Pin 1 - No Connection
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Screen
Pin 5 - Grid
Pin 7 - Heater
Pin 8 - Cathode

Mounting Position: Any

BOTTOM VIEW (G-7AC)

AMPLIFIER ←

Plate Voltage	200	max.	volts
Screen Voltage	117	max.	volts
Plate Dissipation	10	max.	watts
Screen Dissipation	1.25	max.	watts

Typical Operation and Characteristics - Class A_1 Amplifier:

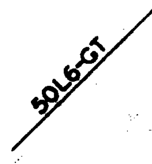
Plate	110	200	volts
Screen	110	110	volts
Grid *	-7.5	-8	volts
Peak A-F Grid Voltage	7.5	8	volts
Zero-Sig. Plate Cur.	49	50	ma.
Max.-Sig. Plate Cur.	50	55	ma.
Zero-Sig. Screen Cur.	4	2	approx. ma.
Max.-Sig. Screen Cur.	11	7	approx. ma.
Plate Resistance	13000	30000	approx. ohms
Transconductance	9000	9500	μmhos
Load Resistance	2000	3000	ohms
Total Harmonic Dist.	10	10	%
Power Output	2.1	4.3	watts

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

* The type of input coupling should not introduce too much resistance in the grid circuit. Transformer- or impedance-coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.

Curves under Type 25L6-GT also apply to the 50L6-GT.

← Indicates a change.





50L6-GT

OPERATION CHARACTERISTICS

E_f = 50 VOLTS PLATE VOLTS = 200 SCREEN VOLTS = 110
CONTROL-GRID VOLTS = −8
SIGNAL VOLTS (RMS) = 5.65

POWER OUTPUT - WATTS
5
4
3
2
1

TOTAL HARMONIC DISTORTION - PER CENT
16
12
8
4

POWER OUTPUT
TOTAL DISTORTION

0 2000 4000 6000
LOAD RESISTANCE - OHMS



50L6-GT

50L6-GT
AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION

JAN. 27, 1950

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6314R1

50L6-GT



50L6-GT

AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION

APRIL 6, 1948 TUBE DEPARTMENT 92CM-6316R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY